Under the Paperwork Residence (NATO) Complete if Known Substitute for form 1449A/PTO 10/790,816 **Application Number** INFORMATION DISCLOSURE March 3, 2004 Filing Date STATEMENT BY APPLICANT Terry L. Gilton First Named Inventor 2812 Art Unit (use as many sheets as necessary) Not Yet Assigned Examiner Name M4065.0607/P607-A Attorney Docket Number 4 of 1 Sheet

			U.S. PA	TENT DOCUMENTS	Pages, Columns, Lines,
Examiner nitiats*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear
HD	**AA	2002/0031005	03/2002	Natori et al.	
7	**AB	2002/0132417	09/09/2002	Li	
	**AC	2002/0160551	10//31/2002		
	**AD	2002/0168852	11/14/2002	Harshfield et al.	
\dashv	**AE	2002/0190289	12/19/2002	Harshfield et al.	
-	**AF	2003/0032254	02/13/2003	Gilton	
	**AG	2003/0038301	02/27/2003	Moore	
	**AH	2003/0043631	03/06/2003		
	**Al	2003/0045049	03/06/2003		
_	**AJ	2003/0045054	03/06/2003	Campbell et al.	
	**AK	2003/0047765	03/13/2003	Campbell	
	**AL	2003/0047772	03/13/2003	Li	
-+	**AM	2003/0047773	03/13/2003	Li	
-+-	**AN	2003/0048519	03/13/2003	Kozicki	
	**AO	2003/0049912	03/13/2003	Campbell et al.	
	**AP	2003/0052330	03/2003	Klein	
-	**AQ	2003/0068861	04/10/2003	[Li	
	**AR	2003/0068862	04/10/2003	Li	
	**AS	2003/0095426	05/22/2003	Hush et al.	
	**AT	2003/0096497	05/22/2003	Moore et al.	
	**AU	2003/0107105	06/12/2003	Kozicki	
	**AV	2003/0117831	06/26/2003	Hush	
	**AW	2003/0128612	07/10/2003	Moore et al.	
	**AX	2003/0137869	07/24/2003	Kozicki	
	TAY	2003/0143782	07/31/2003	Gilton et al.	
	**AZ	2003/0155589	08/21/2003	Campbell et al.	
-+	**AA1	2003/0155606	08/21/2003	Campbell et al.	
_	**AB1	2003/0156447	08/21/2003	Kozicki	
	**AC1	2003/0156463	08/21/2003	Casper et al.	
	**AD1	2003/0209728	11/13/2003	Kozicki et al	
	**AE1	2003/0209971	11/13/2003	Kozicki et al	
	**AF1	2003/0210564	11/13/2003	Kozicki et al	
	**AG1	2003/0210304	11/2003	Ovshinsky et al.	
 	**AH1	2003/0212724	3/2003	Ovshinsky et al.	
	**Al1	2003/0040744	11/2003	Ovshinsky et al.	
	**AJ1	2003/0212723	2/2004	Ramachandran et al.	
	**AK1	4,804,490	02/14/1989		
	**AL1	4,920,078	04/24/1990		
\vdash	**AM1		07/19/1994		
├	**AN1	5,814,527	9/29/1998	Wolstenholme et al	
$\vdash \vdash$	**AO1		10/06/1998		
 	**AP1	5,837,564	11/17/1998		
H	**AQ1		12/22/1998		
1	1"AR1	5,869,843	2/9/1999	Harshfield	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT Application Number 10/790,816 Filling Date March 3, 2004 First Named Inventor Terry L. Gilton Art Unit 2812	
STATEMENT BY APPLICANT First Named Inventor Terry L. Gilton	
(use as many sheets as necessary)	
Examiner Name NOT YET ASSIGNED	
Sheet 2 of 4 Attorney Docket Number M4065.0607/P607-A	
*AS1 5,933,365 08/03/1999 Klersy et al.	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
**AU1 6,031,287 2/29/2000 Harshfield	
**AV1 6,420,725 7/16/2002 Harshfield	
**AW1 6,440,837 8/27/2002 Harshfield	
**AX1 6,518,636 02/2003 Segawa et al.	
**AY1 RE 37,259E 7/2001 Ovshinsky	
AZ1 3,271,001	
POZ 10,001,011	
ABZ 3,900,917	
**AC2 3,983,542 11/1976 Ovshinsky **AD2 3,988,720 10/1976 Ovshinsky	
**AE2 4,177,474 12/1979 Ovshinsky	
**AF2 4,267,261 5/1981 Hallman et al.	
**AG2 4.597.162 7/1986 Johnson et al.	
**AH2 4.608.296 8/1986 Keem et al.	
**Al2 4.637,895 1/1987 Ovshinsky et al.	
**AJ2 4.646,266 2/1987 Ovshinsky et al.	
**AK2 4,664,939 5/1987 Ovshinsky	
**AL2 4,668,968 5/1987 Ovshinsky et al.	
**AM2 4,670,763 6/1987 Ovshinsky et al.	
**AN2 4,673,957 6/1987 Ovshinsky et al.	
**AO2 4,678,679 7/1987 Ovshinsky	
APZ 4,030,730	
1 AQZ 4,000,20 ·	
7.112. 47,7 10,000	
A02 4,720,700	
**AT2 4,737,379 4/1988 Hudgens et al. +*AU2 4,766,471 8/1988 Ovshinsky et al.	
**AV2 4,769,338 9/1988 Ovshinsky et al.	
**AW2 4.775,425 10/1988 Guha et al.	
*AX2 4,788,594 11/1988 Ovshinsky et al.	<u> </u>
*AY2 4 809.044 2/1989 Pryor et al.	
**AZ2 4,818,717 4/1989 Johnson et al.	
**AA3 4,843,443 6/1989 Ovshinsky et al.	
**AB3 4,845,533 7/1989 Pryor et al.	
**AC3 4,853,785 8/1989 Ovshinsky et al.	
ADS 14,001,000	
ALU 10,120,000	
/ W O O O O O O O O O O O O O O O O O O	
**AG3 5,166,758 11/1992 Ovshinsky et al. 1/1993 Klersy et al.	
**Al3 5,777,367 171935 18019 Ovshinsky et al.	
**AJ3 5,335,219 8/1994 Ovshinsky et al.	
**AK3 5,359,205 10/1994 Ovshinsky	
**AL3 5.341.328 8/1994 Ovshinsky et al.	
**AM3 5.406.509 4/1995 Ovshinsky et al.	
**AN3 5,414,271 5/1995 Ovshinsky et al.	
→ AO3 5,534,711 7/1996 Ovshinsky et al.	

Under	Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.								
Sut	stitute for for	m 1449A/PT(0				Complete if I	Known	
		44710		001.001.10		Application Number	10/790,81	6	
		_		SCLOSUR		Filing Date	March 3, 2004		
١	SIAIL	MENI	BY A	APPLICAN	ı	First Named Inventor	Terry L. G	Bilton	
	(us	e as many si	heets as	necessary)		Art Unit	2812		
						Examiner Name	Not Yet A	ssigned	
Sheet		3	of	4		Attorney Docket Number	M4065.06	07/P607-A	
TH	**AP3	5,534,71	2	7/1996	Ovsh	insky et al.			
حنا	**AQ3	5,536,94	7	7/1996	Klers	y et al.			
	**AR3	5,543,73	7	8/1996		insky			
	**AS3	5,591,50		1/1997		insky et al.			
	**AT3	5,596,52		1/1997		insky et al.			
	**AU3	5,687,112		11/1997		insky			
	**AV3	5,694,05		12/1997		insky et al.			
		5,714,76	8	2/1998		insky et al.			
	**AX3	5,825,040		10/1998		atyj et al.			
	**AY3	5,912,839		6/1999		insky et al.			
	**AZ3	5,933,36		8/1999		y et al.			
\vdash	**AA4	6,011,75		1/2000		insky			
	**AB4	6,087,674		7/2000		insky et al.			
1	**AC4	6,141,24		10/2000		insky et al.			
\vdash	**AD4	6,339,544	4	1/2002		ng et al.			
 	**AE4	6,404,669		6/2002		ry et al.			
 	**AF4	6,429,064		8/2002	Wick				
 	**AG4	6,437,383		8/2002	Xu	<u> </u>			
 - 	**AH4	6,462,984		10/2002	Xu et	al			
1	**Al4	6,480,438		11/2002	Park	ai.			
 	**AJ4	6,487,113		11/2002	Park	ot al		-	
1	**AK4	6,501,11		12/2002	Lowe		-		
+	**AL4	6,507,06		1/2003		ens et al.			
 	**AM4	6,511,862		1/2003		ens et al.			
\vdash	**AJN			1/2003					
\vdash	**AO4	6,511,867				ry et al.		·	
$\vdash \vdash$	**AP4	6,512,241		1/2003	Lai	<u> </u>			
$\vdash \vdash$		6,514,805		2/2003	Xu et				
$\vdash \vdash$	**AQ4	6,531,373		3/2003	Gill e				
\vdash	**AR4	6,534,781		3/2003	Denn				
$\vdash \vdash$	**AS4	6,545,287		4/2003	Chiar	· 			
 	**AT4	6,545,907		4/2003		ry et al.			
\vdash	**AU4	6,555,860		4/2003		ry et al.			
\vdash	**AV4	6,563,164		5/2003	1	ry et al.			
 	AW4	6,566,700		5/2003	Xu				
 - -		6,567,293		5/2003		ry et al.			
	**AY4	6,569,705		5/2003		ng et al.			
		6,570,784		5/2003	Lowe				
\vdash		6,576,921		6/2003	Lowe				
		6,586,761		7/2003	Lowe				
$\vdash \vdash$		6,589,714		7/2003		on et al.			
\vdash		6,590,807		7/2003	Lowe				
		6,593,176		7/2003	Denn				
	1 * * A E E	6 507 000)	7/2002	Minke				

7/2003

8/2003

9/2003

9/2003 9/2003 11/2003

11/2003

Dennison et al.

Maimon et al.

Chiang et al. Lowery et al.

Dennison

Wicker

Xu

**AF5 6,597,009

**AG5 6,605,527

**AH5 6,613,604

**AI5 6,621,095 **AJ5 6,625,054 **AK5 6,642,102 **AL5 6,646,297

PTO/SB/08A (10-01)
Approved for use through 10/31/2002.OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE and to a collection of information unless it contains a valid OMB control number.

		n 1449A/PTC				,	Complete if	contains a valid OMB control number. Known
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Application Number	10/790,8	16
						Filing Date	March 3,	2004
S						First Named Inventor	Terry L. C	Silton
						Art Unit	2812	
						Examiner Name	Not Yet A	ssigned
Sheet		4	of	4		Attorney Docket Number	M4065.0607/P607-A	
W	**AM5	6,649,928	3	11/2003	Denr	nison		
72	**AN5	6,667,900)	12/2003	Lowe	ery et al.		
	**AO5	6,671,710)	12/2003	Ovst	ninsky et al.		
	**AP5	6,673,700)	1/2004	Denr	nison et al.		
	**AQ5	6,674,115	<u> </u>	1/2004	Hudg	gens et al.		
	**AR5	6,687,427	,	2/2004	Ram	alingam et al.		
	**AS5	6,690,026	3	2/2004	Pete	rson		
	**AT5	6,696,355	5	2/2004	Denr	nison		
	**AU5	6,687,153	3	2/2004	Lowe	эгу		
	**AV5	6,707,712	2	3/2004	Lowe	Эгу		
T.	**AW5	6,714,954)	3/2004	Ovsh	ninsky et al.		
HI)	**AX5	6,673,648	3	01/2004	Lowr	ey		

		FOREI	GN PATENT (OCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number Hind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°

	A			
Examiner	1)-1	Date	101 /	
Signature Halla	CIBH1.	Considered	10125105	
Signature NOSPON	4014	Considered	10/2/10/	

^{*}EXAMINER: Initial if reference considered, whether object citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁶ Kind of document by the appropriate symbols as Indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Sut	estitute for form 1449A/PTO			Complete If Known					
l	15051447101			Application Number	10/121,792	10/70	10 8	16	
	NFORMATION			Filing Date	April 10, 2002	7	3/3	104	
5	STATEMENT E	3Y /	APPLICANT	First Named Inventor	Terry L. Gilton		7		
	(use as many sho	eets as	necessary)	Art Unit	1773				
	(acc ac many cm		,,,	Examiner Name	Not Yet Assigned				
Sheet	1	of	10	Attomey Docket Number	M4065.0607/P60	7			

			U.S. PA	TENT DOCUMENTS		
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
W	AA	6,388,324**	05/14/2002	Kozicki et al.		
स्व	AB	US 2002/0000666**	01/03/2002	Kozicki et al.		
<u> </u>	AC	5,500,532**	03/19/1996	Kozicki et al.		
	AD	6,418,049**	07/09/2002	Kozicki et al.		
	AE	5,751,012**	05/12/1998	Wolstenholme et al.		
	AF	5,789,277**	08/04/1998	Zahorik et al.		
	AG	6,348,365**	02/19/2002	Moore et al.		
$\neg \tau$	AH	5,761,115**	06/02/1998	Kozicki et al.]	
	Al	5,896,312**	04/20/1999	Kozicki et al.		
	AJ	5,914,893**	06/22/1999	Kozicki et al.		
	AK	6,084,796**	07/04/2000	Kozicki et al.		
THD.	AL	US 2002/0168820**	11/14/2002	Kozicki et al.		
(A)	АМ	6,469,364**	10/22/2002	Kozicki		
147	AN	2002/0072188 App**	6/2002	Gilton		
עני	AO	2002/0123169 App**	9/2002	Moore et al.		
	AP	2002/0123248 App. **	9/2002	Moore et al.		
	AQ	3,622,319**	11/1971	Sharp		
	AR	3,743,847**	7/1973	Boland		
	AS	4,269,935**	5/1981	Masters et al.	<u></u>	
	AT	4,312,938**	1/1982	Drexler, et al.		
	AU	4,316,946**	1/1982	Masters, et al.		
	AV	4,320,191**	3/1982	Yoshikawa et al.		
	AW	4,405,710**	9/1983	Balasubramanyam et al.		
	AX	4,419,421**	12/1983	Wichelhaus, et al.	<u> </u>	
	AY	4,795,657**	1/1989	Formigoni et al.		
	AZ	4,847,674**	7/1989	Sliwa et al.		
	AA1	4,499,557**	2/1985	Holmberg et al.		
		5,177,567**	1/1993	Klersy et al.		
		5,219,788**	6/1993	Abernathey et al.	<u> </u>	
		5,238,862**	8/1993	Blalock et al.	<u> </u>	
	AE1	5,315,131**	5/1994	Kishimoto et al.		
$-\!\!\!+$		5,350,484**	9/1994	Gardner et al.		
		5,360,981**	11/1994	Owen et al.		
}		5,512,328**	4/1996	Yoshimura et al.	<u> </u>	
<u> </u>	AI1	5,512,773**	4/1996	Wolf et al.	 	
		5,726,083**	3/1998	Takaishi		
	AL1	5,841,150**	11/1998	Gonzalez et al.		
		5,846,889**	12/1998	Harbison et al.	 	
-+		5,920,788**	7/1999	Reinberg	- 	
-+	A01		12/1999 6/2000	Block et al.	 	
-+	AP1	6,077,729**	9/2000	Harshfield Harshfield	+	
- 	AR1	6,117,720** 6,143,604**	11/2000	Chiang et al.		
-√4 ~		6,177,338**	1/2001	Liaw et al.	+	

PTO/SB/08A (10-01)
Approved for use through 10/31/2002.OMB 0851-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Subs	stitute for	form 1449A/PTO					Complete if I	Known
				201 001 151	_	Application Number	-10/121,74	92
1	• .			SCLOSURI		Filling Date	April 10,	2002
S	STATEMENT BY APPLICANT					First Named Inventor	Terry L. G	ilton
	(use as many sheets as necessary)					Art Unit	1773	
	(use as many sneets as necessary)			Examiner Name	Not Yet A	ssigned		
Sheet	t 2 of 10		Attorney Docket Number	M4065.06	07/P607			
स्रि	AT1	6,236,059**		5/2001	Wols	tenholme et al.		
HAIN	A111	6,297,170**		10/2001		iel et al.		
1	AV1	6,300,684**		10/2001		zalez et al.		
	AW1	6,316,784**		11/2001		rik et al.		
	AX1	6,329,606**		12/2001		man et al.		
		6,350,679**		2/2002		aniel et al.		
			Gonz	zalez et al.				
		6,391,688**		5/2002	Gonz	alez et al.		
		6,414,376**		7/2002		ur et al.		
		6,423,628**		7/2002	Li et			
		6,487,106**			Kozi			
		5,314,772**		5/24/1994	Kozi			
		2002/01903			Kozi			
		2003/00274			Moo			
		2003/00012				re et al.		
		2002/01068			Moo			
		2002/01278				re et al.		
		2002/01231				re et al.		
	AL2	2002/01638	28 APF	2** 11/2002		er et al		
	AM2	6,072,716**		6/2000		bson et al.		
		5,272,359**		12/93		asubramanian et al.		
		4,671,618**		6/87	Wue			
—		4,800,526**	***	1/89	Lewi			
		2003/00353		02/20/03	Kozi			
		2003/00353	15	02/20/03				
H	AS2	6,473,332**		04/04/01	igna	tiev et al.		
\vdash								
					I			L

		FOREI	GN PATENT	DOCUMENTS	·	
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Country Code ³ -Number ⁴ -Kind Code ⁸ (if known)	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	70
W	BA	WO 02/21542**	03/14/2002	Kozicki et al.		
KL)	BB	WO 00/48196**	08/17/2000	Kozicki et al.		<u> </u>
192	BC	WO 97/48032**	12/18/1997	Kozicki et al.		Ι_
IN	BD	WO 99/28914**	06/10/1999	Kozicki et al.		į .
TIXT .	BE	JP 56126916**	10/1981	Akira et al.		

	-			
Examiner Signature	Heatles (Jety	Date Considered	10/25/05
0.5		= V /I L		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.goy or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

s	ubstitute for form 1449B	/PTO		Complete if Known		
				Application Number	40/121,791	
1	NFORMATI	ON DISC	CLOSURE	Filing Date	April 10, 2002	
(STATEMEN	T BY AF	PLICANT	First Named Inventor	Terry L. Gilton	
	•			Group Art Unit	1773	
	(use as man	y sheets as ne	cessary)	Examiner Name	Not Yet Assigned	
Sheet	3	of	10	Attorney Docket Number	M4065.0607/P607	

ſ		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
\$	CA	Abdel-All, A.; Elshafie, A.; Elhawary, M.M., DC electric-field effect in bulk and thin-film Ge5As38Te57 chalcogenide glass, Vacuum 59 (2000) 845-853.**	
明	СВ	Adler, D.; Moss, S.C., Amorphous memories and bistable switches, J. Vac. Sci. Technol. 9 (1972) 1182-1189.**	
10	CC	Adler, D.; Henisch, H.K.; Mott, S.N., The mechanism of threshold switching in amorphous alloys, Rev. Mod. Phys. 50 (1978) 209-220.**	
10	CD	Afifi, M.A.; Labib, H.H.; El-Fazary, M.H.; Fadel, M., Electrical and thermal properties of chalcogenide glass system Se75Ge25-xSbx, Appl. Phys. A 55 (1992) 167-169.**	
E	CE	Afffi,M.A.; Labib, H.H.; Fouad, S.S.; El-Shazly, A.A., Electrical & thermal conductivity of the amorphous semiconductor GexSe1-x, Egypt, J. Phys. 17 (1986) 335-342.**	
B	CF	Alekperova, Sh.M.; Gadzhieva, G.S., Current-Voltage characteristics of Ag2Se single crystal near the phase transition, Inorganic Materials 23 (1987) 137-139.**	
图	CG	Aleksiejunas, A.; Cesnys, A., Switching phenomenon and memory effect in thin-film heterojunction of polycrystalline selenium-silver selenide, Phys. Stat. Sol. (a) 19 (1973) K169-K171.**	
B	СН	Angell, C.A., Mobile ions in amorphous solids, Annu. Rev. Phys. Chem. 43 (1992) 693-717.**	
S	CI	Aniya, M., Average electronegativity, medium-range-order, and ionic conductivity in superionic glasses, Solid state lonics 136-137 (2000) 1085-1089.**	
NY.	3	Asahara, Y.; Izumitani, T., Voltage controlled switching in Cu-As-Se compositions, J. Non-Cryst. Solids 11 (1972) 97-104.**	
N/	CK	Asokan, S.; Prasad, M.V.N.; Parthasarathy, G.; Gopal, E.S.R., Mechanical and chemical thresholds in IV-VI chalcogenide glasses, Phys. Rev. Lett. 62 (1989) 808-810**	
る	CL	Baranovskii, S.D.; Cordes, H., On the conduction mechanism in ionic glasses, J. Chem. Phys. 111 (1999) 7546-7557.**	
Ŕ	СМ	Belin, R.; Taillades, G.; Pradel, A.; Ribes, M., Ion dynamics in superionic chalcogenide glasses: complete conductivity spectra, Solid state Ionics 136-137 (2000) 1025-1029.**	
3	CN	Belin, R.; Zerouale, A.; Pradel, A.; Ribes, M., Ion dynamics in the argyrodite compound Ag7GeSe5I: non-Arrhenius behavior and complete conductivity spectra, Solid State Ionics 143 (2001) 445-455.**	
3	co	Benmore, C.J.; Salmon, P.S., Structure of fast ion conducting and semiconducting glassy chalcogenide alloys, Phys. Rev. Lett. 73 (1994) 264-267.**	
M	CP	Bernede, J.C., Influence du metal des electrodes sur les caracteristiques courant-tension des structures M-Ag2Se-M, Thin solid films 70 (1980) L1-L4.** TY FIENCE	
M	ca	Bernede, J.C., Polarized memory switching in MIS thin films, Thin Solid Films 81 (1981) 155-160.**	
CH CH	CR	Bernede, J.C., Switching and silver movements in Ag2Se thin films, Phys. Stat. Sol. (a) 57 (1980) K101-K104.**	
M	CS	Bernede, J.C.; Abachi, T., Differential negative resistance in metal/insulator/metal structures with an upper bilayer electrode, Thin solid films 131 (1985) L61-L64.**	
W)	СТ	Bernede, J.C.; Conan, A.; Fousenan't, E.; El Bouchairi, B.; Goureaux, G., Polarized memory switching effects in Ag2Se/Se/M thin film sandwiches, Thin solid films 97 (1982) 165-171.**	
W.	ĊU	Bernede, J.C.; Khelil, A.; Kettaf, M.; Conan, A., Transition from S- to N-type differential negative resistance in Al-Al2O3-Ag2-xSe1+x thin film structures, Phys. Stat. Sol. (a) 74 (1982) 217-224.**	
M	CV	Bondarev, V.N.; Pikhitsa, P.V., A dendrite model of current instability in RbAg4l5, Solid State lonics 70/71 (1994) 72-76.**	
$\sqcap MI$	CW	Boolchand, P., The maximum in glass transition temperature (Tg) near x=1/3 in GexSe1-x	L

Substitu	te for form 1449B	VPTO		Complete if Known		
CODSING				Application Number	10/121,791	
INF	ORMATI	ON DISC	CLOSURE	Filing Date	April-10, 2002	
STA	TEMEN	T BY AP	PLICANT	First Named Inventor	Terry L. Gilton	
• • • • • • • • • • • • • • • • • • • •				Group Art Unit	1773	
	(use as man	ny sheets as nec	essary)	Examiner Name	Not Yet Assigned	
heet	4	of	10	Attorney Docket Number	M4065.0607/P607	

Glasses, Asian Journal of Physics (2000) 9, 709-72.** Boolchand, P.; Georgiev, D.G.; Goodman, B., Discovery of the Intermediate Phase in Chalcogenide Glasses, J. Optoelectronics and Advanced Materials, 3 (2001), 703** Boolchand, P.; Seivanathan, D.; Wang, Y.; Georgiev, D.G.; Bresser, W.J., Onset of rigidity in steps in chalcogenide glasses, Properties and Applications of Annorhous Materials, M.F. Thorpe and Tichty, L. (eds.) Kluwer Academic Publishers, the Netherlands, 2001, pp. 97-132.** CZ Boolchand, P.; Enzweiler, R.N.; Tenhover, M., Structural ordering of evaporated amorphous chalcogenide alloy films: role of thermal annealing, Diffusion and Defect Data Vol. 53-54 (1987) 415-420.** CA1 Boolchand, P.; Grothaus, J.; Bresser, W.J.; Suranyi, P., Structural origin of broken chemical order in a GeSe2 glass, Phys. Rev. B 25 (1982) 2975-2978.** CB1 Boolchand, P.; Grothaus, J.; Phillips, J.C., Broken chemical order and phase separation in Gex561-x glasses, Solid state comm. 45 (1983) 183-185.** CC1 Boolchand, P.; Grothaus, J.; Phillips, J.C., Broken chemical order and phase separation in chalcogenides, Dept. of ECECS, Univ. Cincinnait (October 28, 1999) 4522-10030.** CD1 Boolchand, P.; Grothaus, J., Molecular Structure of Melt-Quenched GeSe2 and GeS2 glasses compared, Proc. Int. Conf. Phys. Semicond. (Eds. Chadi and Harrison) 17 th (1985) 833-36.** CE1 Bresser, W.; Boolchand, P.; Suranyi, P.; de NeuVille, J.P., Intrinsically broken chalcogen chemical order in stotchiometric glasses, Journal de Physique 42 (1981) C4-193.C4-196.** CH1 Gahen, D.; Gilet, JM.; Schmitz, C.; Chernyak, L.; Garsman, K.; Jakubowicz, A., Roommetor of the Chadinand, P.; Suranyi, P.; Hernandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1983) 389-392.** CT1 Cahen, D.; Gilet, JM.; Schmitz, C.; Chernyak, L.; Garsman, K.; Jakubowicz, A., Roommetor of the Chadinand physical physi	Sheet			J 64	10	Attorney Docker Humber	1014003.000771.007	
CX Boolchand, P.; Georgiev, D.G.; Goodman, B., Discovery of the Intermediate Phase in Chalcogenide Glasses, J. Optoelectronics and Advanced Materials, 3 (2001), 7031* CY Boolchand, P.; Selvanathan, D.; Wang, Y.; Georgiev, D.G.; Bresser, W.J., Onset of rigidity in steps in chalcogenide glasses, Properties and Applications of Amorphous Materials, M.F. Thorpe and Tichy, L. (eds.) Kluwer Academic Publishers, the Netherlands, 2001, pp. 97-132.** Boolchand, P.; Enzweiler, R.N.; Tenhover, M., Structural ordering of evaporated amorphous chalcogenide alloy films: role of thermal annealing, Diffusion and Defect Data Vol. 53-54 (1987) 415-420.** CA1 Boolchand, P.; Grothaus, J.; Biresser, W.J.; Suranyi, P., Structural origin of broken chemical order in a GeSe2 glass, Phys. Rev. B 25 (1982) 2975-2978. ** Boolchand, P.; Grothaus, J.; Philips, J.C., Broken chemical order and phase separation in GexSe1+x glasses, Solid state comm. 45 (1983) 183-185. ** CS1 Boolchand, P.; Grothaus, J.; Philips, J.C., Broken chemical order and phase separation in cexSe1+x glasses, Solid state comm. 45 (1983) 183-185. ** CS1 Boolchand, P.; Grothaus, J.; Molecular phase separation in chalcogenides, Dept. of ECES, Univ. Cincinnati (October 28, 1999) 45221-0030.** CS1 Boolchand, P.; Grothaus, J., Molecular Structure of Mell-Quenched GeSe2 and GeS2 glasses compared, Proc. Int. Conf. Phys. Semicond. (Eds. Chadl and Harrison) 17** (1985) 833-38. ** CS2 Bresser, W. J.; Boolchand, P.; Suranyi, P., Rigidity percolation and molecular clustering in network glasses, Phys. Rev. Lett. 56 (1986) 2493-2496. ** Bresser, W. J.; Boolchand, P.; Suranyi, P.; de Newlikie, J.P., Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) C4-193-C4-196. ** Bresser, W. J.; Boolchand, P.; Suranyi, P.; dermadaz, J.G., Molecular phase sparation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1988) 389-392. ** CS1 Green, D.; Gildra, JM.; Schmitz, C.; Chemyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, elect			Glasses.	Asian J	ournal of Physics (2000) 9, 709-72.**	. 1	
CY Boolchand, P.; Selvanathan, D.; Wang, Y.; Georgiev, D.G.; Bresser, W.J., Onset of rigidity in steps in chalcogenide glasses, Properties and Applications of Amorphous Matals, M.F. Thorpe and Tichy, L. (eds.) Kluwer Academic Publishers, the Netherlands, 2001, pp. 97-132.** Boolchand, P.; Enzweller, R.N.; Tenhover, M., Structural ordering of evaporated amorphous chalcogenide alloy films: role of thermal annealing, Diffusion and Defect Data Vol. 53-54 (1987) 415-420.** CA1 Boolchand, P.; Grothaus, J.; Brilesser, W.J.; Suranyi, P., Structural origin of broken chemical order in a GeSe2 glass, Phys. Rev. B 25 (1982) 2975-2978.** CB1 Boolchand, P.; Grothaus, J.; Phillips, J.C.; Broken chemical order and phase separation in GexSe1-x glasses, Solid state comm. 45 (1983) 183-185.** Boolchand, P.; Grothaus, J.; Phillips, J.C.; Broken chemical phase separation in chalcogenides, Dept. of ECECS, Univ. Cincinnati (October 28, 1999) 45221-0030.** DD Boolchand, P.; Grothaus, J. Molecular Structure of Mell-Quenched GeSe2 and GeS2 glasses compared, Proc. Int. Conf. Phys. Semicond. (Eds. Chadi and Harrison) 17* (1985) 833-36.** Bresser, W.J.; Boolchand, P.; Suranyi, P.; Rigidity percolation and molecular clustering in network glasses, Phys. Rev. Lett. 56 (1986) 2493-2496.** Bresser, W.J.; Boolchand, P.; Suranyi, P.; A e Neuville; J.P.; Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) CA-193-CA-196.** CG1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hermandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392.** CG1 Chaen, D.; Gilet, JM.; Schmitz, C.; Chernyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, School and memory switching in bulk As-Te-Se glasses, J. Phys. D. Appl. Phys. 27 (1984) 2624-2627.** CG1 Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 8	M	сх	Boolchan	d, P.; G nide Gla	eorgiev, D.G.; Goodma asses, J. Optoelectroni	in, B., Discovery of the and Advanced Ma	iterials, 3 (2001), 703**	
chalcogenide alloy films: role of thermal annealing, Diffusion and Defect Data Vol. 53-54 (1987) 415-420.** CA1 Boolchand, P.; Grothaus, J.; Bresser, W.J.; Surranyi, P., Structural origin of broken chemical order in a GeSe2 glass, Phys. Rev. B 25 (1982) 2975-2978.** CB1 Boolchand, P.; Grothaus, J.; Phillips, J.C., Broken chemical order and phase separation in GexSe1-x glasses, Solid state comm. 45 (1983) 183-185. ** CB1 Boolchand, P.; Grothaus, J.; Phillips, J.C., Broken chemical order and phase separation in GexSe1-x glasses, P. J., Compositional trends in glass transition temperature (Tg), network connectivity and nanoscale chemical phase separation in chalcogenides, Dept. of ECECS, Univ. Cincinnati (October 28, 1999) 45221-0030. ** CD1 Boolchand, P.; Grothaus, J. Molecular Structure of Melt-Quenched GeSe2 and GeS2 glasses compared, Proc. Int. Conf. Phys. Semicond. (Eds. Chadl and Harrison) 17th (1983) 83-36. ** Bresser, W.; Boolchand, P.; Surranyi, P.; Aligidity percolation and molecular clustering in network glasses, Phys. Rev. Lett. 56 (1986) 2493-2496. ** Bresser, W.J.; Boolchand, P.; Surranyi, P.; Hemandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392. ** CH1 Cahen, D.; Gilet, JM.; Schmitz, C.; Chemyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 (1981) C4-193-C4-196. ** Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627. ** CAIC Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936. ** CM1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 8-10 (1972) 885-881. ** CM1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 8-1	HD		Boolchan steps in c	d, P.; So halcoge nd Tich	elvanathan, D.; Wang, enide glasses, Propertie /, L. (eds.) Kluwer Acad	Y.; Georgiev, D.G.; E as and Applications o lemic Publishers, the	Bresser, W.J., Onset of rigidity in of Amorphous Materials, M.F. o Netherlands, 2001, pp. 97-132.**	
order in a GeSe2 glass, Phys. Rev. B 25 (1982) 2975-2978. ** CBI Boolchand, P.; Grothaus, J.; Phillips, J.C., Broken chemical order and phase separation in GexSe1-x glasses, Solid state comm. 45 (1983) 183-185. ** CCI Boolchand, P., Bresser, W.J., Compositional trends in glass transition temperature (Tg), network connectivity and nanoscale chemical phase separation in chalcogenides, Dept. of ECECS, Univ. Cincinnati (October 28, 1999) 45221-0030. ** CDI Boolchand, P.; Grothaus, J., Molecular Structure of Mell-Quenched GeSe2 and GeS2 glasses compared, Proc. Int. Conf. Phys. Semicond. (Eds. Chadi and Harrison) 17" (1985) 833-36. ** CEI Bresser, W.; Boolchand, P.; Suranyi, P., Rigidity percolation and molecular clustering in network glasses, Phys. Rev. Lett. 56 (1986) 2493-2496. ** CFI Bresser, W.J.; Boolchand, P.; Suranyi, P.; de Neufville, J.P., Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) C4-193-C4-196. ** CGI Bresser, W.J.; Boolchand, P.; Suranyi, P.; de Neufville, J.P., Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) C4-193-C4-196. ** CGI Bresser, W.J.; Boolchand, P.; Suranyi, P.; de Neufville, J.P., Intrinsically broken chalcogen chemical order in stoichiometric glasses, J.s., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392. ** CHI Cahen, D.; Gilet, JM.; Schmitz, C.; Chemyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274. ** Chaterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627. ** Champarature, electric field induced of the controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627. ** Champarature, electric field induced by Ag photodo	Ð	CZ	chalcoger (1987) 41	nide allo 5-420. 1	oy films: role of therma	annealing, Diffusion	and Defect Data Vol. 53-54	
Bootchand, P., Bresser, W.J., Compositional trends in glass transition temperature (g), network connectivity and nanoscale chemical phase separation in chalcogenides, Dept. of ECES, Univ. Cincinnati (October 28, 1999) 45221-0030.** CD1 Bootchand, P.; Grothaus, J. Molecular Structure of Melt-Quenched GeSe2 and GeS2 glasses compared, Proc. Int. Conf. Phys. Semicond. (Eds. Chadi and Harrison) 17th (1985) 833-36.** CE1 Bresser, W. Bootchand, P.; Suranyi, P., Rigidity percolation and molecular clustering in network glasses, Phys. Rev. Lett. 56 (1986) 2493-2496.** CF1 Bresser, W.J.; Bootchand, P.; Suranyi, P.; de Neufville, J.P., Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) C4-193-C4-196.** CG1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hemandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392.** CH1 Cahen, D.; Gilet, JM.; Schmitz, C.; Chernyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274.** C11 Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627.** Chen, C.H.; Tai, K.L., Whisker growth induced by Ag photodoping in glassy GexSe1-x films, Appl. Phys. Lett. 37 (1980) 1075-1077.** CK1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936.** CO1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 20 (1997) 249-253.** CN1 Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor in some amorphous semiconductors of Non-Cryst. Solids 8-10 (1972) 781-786.** CN1 Cohen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 8-10 (1972) 781-786.** CN1 Cohen,	W)	CA1	order in a	GeSe2	glass, Phys. Rev. B 25	5 (1982 <u>) 2975-2978. '</u>	**	_
Bootchand, P., Bresser, W.J., Compositional trends in glass transition temperature (g), network connectivity and nanoscale chemical phase separation in chalcogenides, Dept. of ECES, Univ. Cincinnati (October 28, 1999) 45221-0030.** CD1 Bootchand, P.; Grothaus, J. Molecular Structure of Melt-Quenched GeSe2 and GeS2 glasses compared, Proc. Int. Conf. Phys. Semicond. (Eds. Chadi and Harrison) 17th (1985) 833-36.** CE1 Bresser, W. Bootchand, P.; Suranyi, P., Rigidity percolation and molecular clustering in network glasses, Phys. Rev. Lett. 56 (1986) 2493-2496.** CF1 Bresser, W.J.; Bootchand, P.; Suranyi, P.; de Neufville, J.P., Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) C4-193-C4-196.** CG1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hemandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392.** CH1 Cahen, D.; Gilet, JM.; Schmitz, C.; Chernyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274.** C11 Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627.** Chen, C.H.; Tai, K.L., Whisker growth induced by Ag photodoping in glassy GexSe1-x films, Appl. Phys. Lett. 37 (1980) 1075-1077.** CK1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936.** CO1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 20 (1997) 249-253.** CN1 Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor in some amorphous semiconductors of Non-Cryst. Solids 8-10 (1972) 781-786.** CN1 Cohen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 8-10 (1972) 781-786.** CN1 Cohen,	10		Boolchan GexSe1->	d, P.; G cglasse	rothaus, J.; Phillips, J.C s, Solid state comm. 4	C., Broken chemical of (1983) 183-185. **	order and phase separation in	
CD1 Boolchand, P.; Grothaus, J., Molecular Structure of Melt-Quenched GeSe2 and GeS2 glasses compared, Proc. Int. Conf. Phys. Semicond. (Eds. Chadi and Harrison) 17 th (1985) 833-36. ** CE1 Bresser, W.; Boolchand, P.; Suranyi, P., Rigidity percolation and molecular clustering in network glasses, Phys. Rev. Lett. 56 (1986) 2493-2496. ** Bresser, W. J.; Boolchand, P.; Suranyi, P.; de Neufville, J., Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) C4-193-C4-196. ** CG1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hernandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392. ** CH1 Cahen, D.; Gillet, JM.; Schmitz, C.; Chernyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274. ** C11 Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627. ** C21 Chen, C.H.; Tai, K.L., Whisker growth induced by Ag photodoping in glassy GexSe1-x films, Appl. Phys. Lett. 37 (1980) 1075-1077. ** CK1 Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936. ** CC1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** CM1 Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** CN1 Critoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CN2 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CN3 Daven, R.; Gill, R., Electrical properties of beta-Ag2	\$p	CC1	network c	onnecti Univ. Ci	vity and nanoscale che ncinnati (October 28, 1	mical phase separati 999) 45221-0030. **	ion in chalcogenides, Dept. of	
CE1 Bresser, W.; Boolchand, P.; Suranyi, P., Rigidity percolation and molecular clustering in network glasses, Phys. Rev. Lett. 56 (1986) 2493-2496.** CF1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; de Neufville, J.P., Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) C4-193-C4-196.** CG1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hermandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392.** CH1 Cahen, D.; Gilet, JM.; Schmitz, C.; Chernyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CuInSe2 Crystals, Science 258 (1992) 271-274.** C11 Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627.** C11 Chen, C.H.; Tai, K.L., Whisker growth induced by Ag photodoping in glassy GexSe1-x films, Appl. Phys. Lett. 37 (1980) 1075-1077.** CK1 Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936.** CC1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253.** CM1 Chen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891.** CN1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786.** CN2 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756.** CN3 Dearnaley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191.** CR1 Deius, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst.	M	CD1	Boolchan	d, P., G l. Proc.	rothaus, J, Molecular S Int. Conf. Phys. Semic	structure of Melt-Quer and. (Eds. Chadi and	nched GeSe2 and GeS2 glasses I Harrison) 17 th (1985) 833-36. **	
CF1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; de Neufville, J.P., Intrinsically broken chalcogen chemical order in stoichiometric glasses, Journal de Physique 42 (1981) C4-193-C4-196. ** CG1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hernandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392. ** Chen, D.; Gilet, JM.; Schmitz, C.; Chernyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274. ** C11 Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627. ** C31 Chen, C.H.; Tai, K.L., Whisker growth induced by Ag photodoping in glassy GexSe1-x films, Appl. Phys. Lett. 37 (1980) 1075-1077. ** CK1 Chen, G.; Cheng, J.; Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936. ** Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** Chi Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** C1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** C2 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** C21 Daevaneley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** C31 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** C41 Drusedau, T.P.; Panckow, A.	不) CE1	Bresser, \	W.; Boo ilasses.	Ichand, P.; Suranyi, P., Phys. Rev. Lett. 56 (19	Rigidity percolation : 986) 2493-2496. **	and molecular clustering in	
CG1 Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hernandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392. ** Chen, D.; Gilet, JM.; Schmitz, C.; Chernyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274. ** Cl1 Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627. ** CJ1 Chen, C.H.; Tai, K.L., Whisker growth induced by Ag photodoping in glassy GexSe1-x films, Appl. Phys. Lett. 37 (1980) 1075-1077. ** CK1 Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936. ** CL1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** CM1 Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** CN1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** Dejus, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-Crystem, J. Non-Crystem, J. Non-Crystem, J. Non-Crystem, J. Non-Crystem, J. Non-Crystem, J. Non-Crystem	M	CF1	Bresser, \	W.J.; Bo	polchand, P.; Suranyl, F stoichiometric glasses	P.; de Neufville, J.P, I , Journal de Physiqu	e 42 (1981) C4-193-C4-196. **	
CH1 Cahen, D.; Gilet, JM.; Schmitz, C.; Chemyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CuInSe2 Crystals, Science 258 (1992) 271-274. ** CI1 Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627. ** CJ1 Chen, C.H.; Tai, K.L., Whisker growth induced by Ag photodoping in glassy GexSe1-x films, Appl. Phys. Lett. 37 (1980) 1075-1077. ** CK1 Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936. ** CL1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** CM1 Chen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** CN1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CO1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CR1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	M	CG1	Bresser, \	W.J.; Bo	oolchand, P.; Suranyi, F	P.; Hernandez, J.G., I	Molecular phase separation and	
C11 Chatterjee, R.; Asokan, S.; Titus, S.S.K., Current-controlled negative-resistance behavior and memory switching in bulk As-Te-Se glasses, J. Phys. D: Appl. Phys. 27 (1994) 2624-2627.** CJ1 Chen, C.H.; Tai, K.L., Whisker growth induced by Ag photodoping in glassy GexSe1-x films, Appl. Phys. Lett. 37 (1980) 1075-1077. ** CK1 Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936. ** CK1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** CM1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** CM1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CC1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CC1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CC1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CC1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	10	CH1	Cahen, D Temperat 258 (1992	.; Gilet, ture, ele 2) 271-2	JM.; Schmitz, C.; Che ectric field induced crea 274. **	ernyak, L.; Gartsman tion of stable devices	, K.; Jakubowicz, A., Room- s in CulnSe2 Crystals, Science	
Appl. Phys. Lett. 37 (1980) 1075-1077. ** CK1 Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936. ** CL1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** CM1 Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** CN1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CP1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CQ1 Dearnaley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	IN	CI1	Chatterie	e, R.; A	sokan, S.; Titus, S.S.K.	, Current-controlled rases, J. Phys. D: App	negative-resistance behavior and ol. Phys. 27 (1994) 2624-2627.	
CK1 Chen, G.; Cheng, J., Role of nitrogen in the crystallization of silicon nitride-doped chalcogenide glasses, J. Am. Ceram. Soc. 82 (1999) 2934-2936. ** CL1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** CM1 Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** CN1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CP1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CQ1 Dearnaley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-		CJ1	Chen, C.I	ੀ.; Tai, ∕s. Lett.	K.L., Whisker growth in 37 (1980) 1075-1077.	nduced by Ag photod	doping in glassy GexSe1-x films,	
CL1 Chen, G.; Cheng, J.; Chen, W., Effect of Si3N4 on chemical durability of chalcogenide glass, J. Non-Cryst. Solids 220 (1997) 249-253. ** CM1 Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** CN1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CO1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CO2 Dearnaley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	1/2	CK1	Chen, G.;	Cheng	, J., Role of nitrogen in sses, J. Am. Ceram. So	the crystallization of oc. 82 (1999) 2934-2	936. **	
CM1 Cohen, M.H.; Neale, R.G.; Paskin, A., A model for an amorphous semiconductor memory device, J. Non-Cryst. Solids 8-10 (1972) 885-891. ** CN1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CP1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CQ1 Dearnaley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	BOD	CL1	Chen, G.; J. Non-Cr	Cheng	, J.; Chen, W., Effect of ids 220 (1997) 249-253	Si3N4 on chemical of the side	durability of chalcogenide glass,	
CN1 Croitoru, N.; Lazarescu, M.; Popescu, C.; Telnic, M.; and Vescan, L., Ohmic and non-ohmic conduction in some amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 781-786. ** CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CP1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CQ1 Dearnaley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	40	CM1	Cohen, M	I.H.; Ne Non-C	ale, R.G.; Paskin, A., A rvst. Solids 8-10 (1972)	model for an amorp 885-891. **		
CO1 Dalven, R.; Gill, R., Electrical properties of beta-Ag2Te and beta-Ag2Se from 4.2 to 300K, J. Appl. Phys. 38 (1967) 753-756. ** CP1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CQ1 Dearnaley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	20	CN1	Croitoru,	N.; Laza	arescu, M.; Popescu, C	.; Telnic, M.; and Ves	st. Solids 8-10 (1972) 781-786. **	
CP1 Davis, E.A., Semiconductors without form, Search 1 (1970) 152-155. ** CQ1 Dearnaley, G.; Stoneham, A.M.; Morgan, D.V., Electrical phenomena in amorphous oxide films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	M	CO1	Dalven, R	R.; Gill, I rs. 38 (1	R., Electrical properties 967) 753-756. **	of beta-Ag2Te and b	peta-Ag2Se from 4.2 to 300K, J.	
films, Rep. Prog. Phys. 33 (1970) 1129-1191. ** CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	HA	CP1	Davis, E.	A., Sem	iconductors without for	m, Search 1 (1970) 1	152-155. **	
CR1 Dejus, R.J.; Susman, S.; Volin, K.J.; Montague, D.G.; Price, D.L., Structure of Vitreous Ag-Ge-Se, J. Non-Cryst. Solids 143 (1992) 162-180. ** CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	4) CQ1	films, Ren	. Prog.	Phys. 33 (1970) 1129-	1191. **		
CS1 den Boer, W., Threshold switching in hydrogenated amorphous silicon, Appl. Phys. Lett. 40 (1982) 812-813. ** CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	M	CR1	Dejus, R. Se. J. No	J.; Susr n-Cryst	nan, S.; Volin, K.J.; Mo . Solids 143 (1992) 162	ntague, D.G.; Price,∃ -180. **		<u> </u>
CT1 Drusedau, T.P.; Panckow, A.N.; Klabunde, F., The hydrogenated amorphous silicon/nanodisperse metal (SIMAL) system-Films of unique electronic properties, J. Non-	8)CS1	den Boer (1982) 81	, W., Th 2-813.	reshold switching in hy	drogenated amorpho		
	B	CT1	Drusedau silicon/na	ı, T.P.; I nodispe	Panckow, A.N.; Klabun erse metal (SIMAL) sys	tem-Films of unique	ated amorphous electronic properties, J. Non-	

Undert	he Paperwork Reduction	Act of 1995	, no persons are required to (U. S. Patent and Tradem	PTO/SB/08B (10-01 roved for use through 10/31/2002.OMB 0851-0031 hark Office: U.S. DEPARTMENT OF COMMERCE nation unless it contains a valid OMB control number		
· Sul	ostitute for form 1449B/P	TO			Complete if Known		
50	osalale for form 14400m			Application Number	10/121,791		
11	VEORMATIC	N DI	SCLOSURE	Filing Date	April-10, 2002		
	TATEMENT			First Named Inventor	Terry L. Gilton		
Ŭ				Group Art Unit	1773		
	(use as many	sheets as	necessary)	Examiner Name	Not Yet Assigned		
Sheet	5	of	10	Attorney Docket Number	M4065.0607/P607		

HD CU	Films 110 (1983) 107-113. **
#D CVI	x photoconductivity, J. Non-Cryst. Solids 155 (1993) 171-179. **
Mcw	
rn) cx1	El Ghrandi, R.; Calas, J.; Galibert, G., Ag dissolution kinetics in amorphous GeSe5.5 thin films from "in-situ" resistance measurements vs time, Phys. Stat. Sol. (a) 123 (1991) 451-460. **
The CYT	El-kady, Y.L., The threshold switching in semiconducting glass Ge21Se17Te62, Indian J. Phys. 70A (1996) 507-516. **
YN CZ1	Elliott, S.R., A unified mechanism for metal photodissolution in amorphous chalcogenide materials, J. Non-Cryst. Solids 130 (1991) 85-97. **
TATO CAZ	Non-Cryst. Solids 137-138 (1991) 1031-1034. **
KM CB2	state of thin films containing Te As Ge Si, Vacuum 46 (1995) 701-707. **
#D cc	of Ge20BixSe80-x films, Thin Solid Films 376 (2000) 236-240. **
HD CD	chalcogenide glass, Vacuum 44 (1993) 851-855. **
H) CE	43 (1992) 253-257. **
1-10 CF2	glasses, Phys. Rev. Lett. 78 (1997) 4422-4425. **
LAD CC.	on the elastic, plastic and thermal behavior of covalent glasses, J. Non-Cryst. Solids 222 (1997) 137-143. **
HD CH	photodiffused amorphous Aq-GeSe2 thin films, Phys. Rev. B 38 (1988) 12388-12403. **
JYN CI2	Fleury, G.; Hamou, A.; Viger, C.; Vautier, C., Conductivity and crystallization of amorphous selenium, Phys. Stat. Sol. (a) 64 (1981) 311-316. **
HD CJ2	Fritzsche, H, Optical and electrical energy gaps in amorphous semiconductors, J. Non-Cryst. Solids 6 (1971) 49-71. **
AN CK	Materials Science 2 (1972) 697-744. **
40 CL2	Gates, B.; Wu, Y.; Yin, Y.; Yang, P.; Xia, Y., Single-crystalline nanowires of Ag2Se can be synthesized by templating against nanowires of trigonal Se, J. Am. Chem. Soc. (2001) currently ASAP. **
HP CM	Gosain, D.P.; Nakamura, M.; Shimizu, T.; Suzuki, M.; Okano, S., Nonvolatile memory based on reversible phase transition phenomena in telluride glasses, Jap. J. Appl. Phys. 28 (1989) 1013-1018. **
to cu	Guin, JP.; Rouxel, T.; Keryvin, V.; Sangleboeuf, JC.; Serre, I.; Lucas, J., Indentation creep of Ge-Se chalcogenide glasses below Tg: elastic recovery and non-Newtonian flow, J. Non-Cryst, Solids 298 (2002) 260-269. **
#D co:	Guin, JP.; Rouxel, T.; Sangleboeuf, JC; Melscoet, I.; Lucas, J., Hardness, toughness, and scratchability of germanium-selenium chalcogenide glasses, J. Am. Ceram. Soc. 85 (2002) 1545-52. **
₩) CP2	Gupta, Y.P., On electrical switching and memory effects in amorphous chalcogenides, J. Non-Cryst. Sol. 3 (1970) 148-154. **
YD co:	Haberland, D.R.; Stiegler, H., New experiments on the charge-controlled switching effect in amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 408-414. **

Su	ubstitute for form 1449B/PTC	_		Complete if Known		
-		-		Application Number	40/121,791	
11	NFORMATION	1 DI	SCLOSURE	Filing Date	April 10, 2002	
5	STATEMENT	BY A	APPLICANT	First Named Inventor	Terry L. Gilton	
				Group Art Unit	1773	
	(use as many sh	eets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	6	of	10	Attorney Docket Number	M4065.0607/P607	

4	CR2	Haifz, M.M.; Ibrahim, M.M.; Dongol, M.; Hammad, F.H., Effect of composition on the structure and electrical properties of As-Se-Cu glasses, J. Apply. Phys. 54 (1983) 1950-1954.
\$	CS2	Hajto, J.; Rose, M.J.; Osborne, I.S.; Snell, A.J.; Le Comber, P.G.; Owen, A.E., Quantization effects in metal/a-Si:H/metal devices, Int. J. Electronics 73 (1992) 911-913. **
WD	CT2	Hajto, J.; Hu, J.; Snell, A.J.; Turvey, K.; Rose, M., DC and AC measurements on metal/a-Si:H/metal room temperature quantised resistance devices, J. Non-Cryst. Solids 266-269 (2000) 1058-1061. **
色	CU2	Hajto, J.; McAuley, B.; Snell, A.J.; Owen, A.E., Theory of room temperature quantized resistance effects in metal-a-Si:H-metal thin film structures, J. Non-Cryst. Solids 198-200 (1996) 825-828. **
HD	CV2	Hajto, J.; Owen, A.E.; Snell, A.J.; Le Comber, P.G.; Rose, M.J., Analogue memory and ballistic electron effects in metal-amorphous silicon structures, Phil. Mag. B 63 (1991) 349-369. **
B	CW2	Hayashi, T.; Ono, Y.; Fukaya, M.; Kan, H., Polarized memory switching in amorphous Se film, Japan. J. Appl. Phys. 13 (1974) 1163-1164. **
HD	CX2	Hegab, N.A.; Fadel, M.; Sedeek, K., Memory switching phenomena in thin films of chalcogenide semiconductors, Vacuum 45 (1994) 459-462. **
(H)	CY2	Hong, K.S.; Speyer, R.F., Switching behavior in II-IV-V2 amorphous semiconductor systems, J. Non-Cryst. Solids 116 (1990) 191-200. **
(H)	CZ2	Hosokawa, S., Atomic and electronic structures of glassy GexSe1-x around the stiffness threshold composition, J. Optoelectronics and Advanced Materials 3 (2001) 199-214. **
KD	CA3	Hu, J.; Snell, A.J.; Hajto, J.; Owen, A.E., Constant current forming in Cr/p+a-/Si:H/V thin film devices, J. Non-Cryst. Solids 227-230 (1998) 1187-1191. **
あ	CB3	Hu, J.; Hajto, J.; Snell, A.J.; Owen, A.E.; Rose, M.J., Capacitance anomaly near the metal- non-metal transition in Cr-hydrogenated amorphous Si-V thin-film devices, Phil. Mag. B. 74 (1996) 37-50. **
40	CC3	Hu, J.; Snell, A.J.; Hajto, J.; Owen, A.E., Current-induced instability in Cr-p+a-Si:H-V thin film devices, Phil. Mag. B 80 (2000) 29-43. **
4	CD3	lizima, S.; Sugi, M.; Kikuchi, M.; Tanaka, K., Electrical and thermal properties of semiconducting glasses As-Te-Ge, Solid State Comm. 8 (1970) 153-155. **
H	CE3	Ishikawa, R.; Kikuchi, M., Photovoltaic study on the photo-enhanced diffusion of Ag in amorphous films of Ge2S3, J. Non-Cryst. Solids 35 & 36 (1980) 1061-1066. **
Ŧ	CF3	lyetomi, H.; Vashishta, P.; Kalia, R.K., Incipient phase separation in Ag/Ge/Se glasses: clustering of Ag atoms, J. Non-Cryst. Solids 262 (2000) 135-142. **
HD	CG3	Jones, G.; Collins, R.A., Switching properties of thin selenium films under pulsed bias, Thin Solid Films 40 (1977) L15-L18. **
HÓ	СНЗ	Joullie, A.M.; Marucchi, J., On the DC electrical conduction of amorphous As2Se7 before switching, Phys. Stat. Sol. (a) 13 (1972) K105-K109. **
B	CI3	Jouille, A.M.; Marucchi, J., Electrical properties of the amorphous alloy As2Se5, Mat. Res. Bull. 8 (1973) 433-442. **
4	CJ3	Kaplan, T.; Adler, D., Electrothermal switching in amorphous semiconductors, J. Non-Cryst. Solids 8-10 (1972) 538-543. **
A	скз)	Kawaguchi, T.; Maruno, S.; Elliott, S.R., Optical, electrical, and structural properties of amorphous Ag-Ge-S and Ag-Ge-Se films and comparison of photoinduced and thermally induced phenomena of both systems, J. Appl. Phys. 79 (1996) 9096-9104. **
th	CL3	Kawaguchi, T.; Masul, K., Analysis of change in optical transmission spectra resulting from Ag photodoping in chalcogenide film, Japn. J. Appl. Phys. 26 (1987) 15-21. **
th	СМЗ	Kawasaki, M.; Kawamura, J.; Nakamura, Y.; Aniya, M., Ionic conductivity of Agx(GeSe3)1-x (0<=x<=0.571) glasses, Solid state Ionics 123 (1999) 259-269. **
T)	CN3	Kluge, G.; Thomas, A.; Klabes, R.; Grotzschel, R., Silver photodiffusion in amorphous GexSe100-x, J. Non-Cryst. Solids 124 (1990) 186-193. **
. ,		

- Su	bstitute for form 1449B/	PTO		Complete if Known		
				Application Number	10/121,791	
11	NFORMATION	ON DISC	CLOSURE	Filing Date	April 10, 2002	
S	STATEMEN ^T	T BY AP	PLICANT	First Named Inventor	Terry L. Gilton	
_	<u>.</u>			Group Art Unit	1773	
	(use as many	y sheets as nec	essary)	Examiner Name	Not Yet Assigned	
Sheet	7	of	10	Attorney Docket Number	M4065.0607/P607	

H	соз	Kolobov, A.V., On the origin of p-type conductivity in amorphous chalcogenides, J. Non-Cryst. Solids 198-200 (1996) 728-731. **
HD	CP3	Kolobov, A.V., Lateral diffusion of silver in vitreous chalcogenide films, J. Non-Cryst. Solids 137-138 (1991) 1027-1030. **
M	CQ3	Korkinova, Ts.N.; Andreichin,R.E., Chalcogenide glass polarization and the type of contacts, J. Non-Cryst. Solids 194 (1996) 256-259. **
HD	CR3	Kotkata, M.F.; Afif, M.A.; Labib, H.H.; Hegab, N.A.; Abdel-Aziz, M.M., Memory switching in amorphous GeSeTI chalcogenide semiconductor films, Thin Solid Films 240 (1994) 143-146.
41)	CS3	Lakshminarayan, K.N.; Srivastava, K.K.; Panwar, O.S.; Dumar, A., Amorphous semiconductor devices: memory and switching mechanism, J. Instn Electronics & Telecom. Engrs 27 (1981) 16-19. **
4D	СТЗ	Lai, M.; Goyal, N., Chemical bond approach to study the memory and threshold switching chalcogenide glasses, Indian Journal of pure & appl. phys. 29 (1991) 303-304. **
141	CU3)	Leimer, F.; Stotzel, H.; Kottwitz, A., Isothermal electrical polarisation of amorphous GeSe films with blocking Al contacts influenced by Poole-Frenkel conduction, Phys. Stat. Sol. (a) 29 (1975) K129-K132. **
PD	CV3	Leung, W.; Cheung, N.; Neureuther, A.R., Photoinduced diffusion of Ag in GexSe1-x glass, Appl. Phys. Lett. 46 (1985) 543-545. **
M	CW3	Matsushita, T.; Yamagami, T.; Okuda, M., Polarized memory effect observed on Se-SnO2 system, Jap. J. Appl. Phys. 11 (1972) 1657-1662. **
Ch.	СХЗ	Matsushita, T.; Yamagami, T.; Okuda, M., Polarized memory effect observed on amorphous selenium thin films, Jpn. J. Appl. Phys. 11 (1972) 606. **
CH4	CY3	Mazurier, F.; Levy, M.; Souquet, J.L, Reversible and Irreversible electrical switching in TeO2- V2O5 based glasses, Journal de Physique IV 2 (1992) C2-185 - C2-188. **
HD	CZ3	Messoussi, R.; Bernede, J.C.; Benhida, S.; Abachi, T.; Latef, A., Electrical characterization of M/Se structures (M=Ni,Bi), Mat. Chem. And Phys. 28 (1991) 253-258. **
HD	CA4	Mitkova, M.; Boolchand, P., Microscopic origin of the glass forming tendency in chalcogenides and constraint theory, J. Non-Cryst. Solids 240 (1998) 1-21. **
HD	CB4	Mitkova, M.; Kozicki, M.N., Silver incorporation in Ge-Se glasses used in programmable metallization cell devices, J. Non-Cryst. Solids 299-302 (2002) 1023-1027. **
W	CC4	Miyatani, Sy., Electronic and ionic conduction in (AgxCu1-x)2Se, J. Phys. Soc. Japan 34 (1973) 423-432. **
- KU	CD4	Miyatani, Sy., Electrical properties of Ag2Se, J. Phys. Soc. Japan 13 (1958) 317. **
40	CE4	Miyatani, Sy., lonic conduction in beta-Ag2Te and beta-Ag2Se, Journal Phys. Soc. Japan 14 (1959) 996-1002. **
KN	CF4	Mott, N.F., Conduction in glasses containing transition metal ions, J. Non-Cryst. Solids 1 (1968) 1-17. **
B	CG4	Nakayama, K.; Kitagawa, T.; Ohmura, M.; Suzuki, M., Nonvolatile memory based on phase transitions in chalcogenide thin films, Jpn. J. Appl. Phys. 32 (1993) 564-569. **
7	CH4	Nakayama, K.; Kojima, K.; Hayakawa, F.; Imai, Y.; Kitagawa, A.; Suzuki, M., Submicron nonvolatile memory cell based on reversible phase transition in chalcogenide glasses, Jpn. J. Appl. Phys. 39 (2000) 6157-6161. **
B	CI4	Nang, T.T.; Okuda, M.; Matsushita, T.; Yokota, S.; Suzuki, A., Electrical and optical parameters of GexSe1-x amorphous thin films, Jap. J. App. Phys. 15 (1976) 849-853. **
A)	CJ4	Narayanan, R.A.; Asokan, S.; Kumar, A., Evidence concerning the effect of topology on electrical switching in chalcogenide network glasses, Phys. Rev. B 54 (1996) 4413-4415.**
淡	CK4	Neale, R.G.; Aseltine, J.A., The application of amorphous materials to computer memories, IEEE transactions on electron dev. Ed-20 (1973) 195-209. **
M	CL4	Ovshinsky S.R.; Fritzsche, H., Reversible structural transformations in amorphous semiconductors for memory and logic, Mettalurgical transactions 2 (1971) 641-645. **
•		

PTO/SB/08B (10-01)
Approved for use through 10/31/2002.OMB 0851-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

M4065.0607/P607

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449B/PTO 10/121,79T **Application Number** INFORMATION DISCLOSURE April 10, 2002 Filing Date STATEMENT BY APPLICANT First Named Inventor Terry L. Gilton 1773 Group Art Unit (use as many sheets as necessary) Not Yet Assigned Examiner Name

Attorney Docket Number

10

Silect		
HD	СМ4	Ovshinsky, S.R., Reversible electrical switching phenomena in disordered structures, Phys. Rev. Lett. 21 (1968) 1450-1453. **
th)	CN4	Owen, A.E.; LeComber, P.G.; Sarrabayrouse, G.; Spear, W.E., New amorphous-silicon electrically programmable nonvolatile switching device, IEE Proc. 129 (1982) 51-54. **
KD	CO4	Owen, A.E.; Firth, A.P.; Ewen, P.J.S., Photo-induced structural and physico-chemical changes in amorphous chalcogenide semiconductors, Phil. Mag. B 52 (1985) 347-362. **
M	CP4	Owen, A.E.; Le Comber, P.G.; Hajto, J.; Rose, M.J.; Snell, A.J., Switching in amorphous devices, Int. J. Electronics 73 (1992) 897-906. **
#D	CQ4	Pearson, A.D.; Miller, C.E., Filamentary conduction in semiconducting glass diodes, App. Phys. Lett. 14 (1969) 280-282. **
AD	CR4	Pinto, R.; Ramanathan, K.V., Electric field induced memory switching in thin films of the chalcogenide system Ge-As-Se, Appl. Phys. Lett. 19 (1971) 221-223. **
HD	CS4	Popescu, C., The effect of local non-uniformities on thermal switching and high field behavior of structures with chalcogenide glasses, Solid-state electronics 18 (1975) 671-681. **
M	CT4	Popescu, C.; Croitoru, N., The contribution of the lateral thermal instability to the switching phenomenon, J. Non-Cryst. Solids 8-10 (1972) 531-537.
M	CU4	Popov, A.I.; Geller, I.KH.; Shemetova, V.K., Memory and threshold switching effects in amorphous selenium, Phys. Stat. Sol. (a) 44 (1977) K71-K73. **
L PD	CV4	Prakash, S.; Asokan, S.; Ghare, D.B., Easily reversible memory switching in Ge-As-Te glasses, J. Phys. D: Appl. Phys. 29 (1996) 2004-2008.
H)	CW4	Rahman, S.; Sivarama Sastry, G., Electronic switching in Ge-Bi-Se-Te glasses, Mat. Sci. and Eng. B12 (1992) 219-222. **
m	CX4	Ramesh, K.; Asokan, S.; Sangunni, K.S.; Gopal, E.S.R., Electrical Switching in germanium telluride glasses doped with Cu and Ag, Appl. Phys. A 69 (1999) 421-425.
10	CY4	Rose,M.J.;Hajto,J.;Lecomber,P.G.;Gage,S.M.;Choi,W.K.;Snell,A.J.;Owen,A.E., Amorphous silicon analogue memory devices, J. Non-Cryst. Solids 115 (1989) 168-170. **
1	CZ4	Rose,M.J.;Snell,A.J.;Lecomber,P.G.;Hajto,J.;Fitzgerald,A.G.;Owen,A.E., Aspects of non-volatility in a -Si:H memory devices, Mat. Res. Soc. Symp. Proc. V 258, 1992, 1075-1080. **
M	CA5	Schuocker, D.; Rieder, G., On the reliability of amorphous chalcogenide switching devices, J. Non-Cryst. Solids 29 (1978) 397-407. **
FD	CB5	Sharma, A.K.; Singh, B., Electrical conductivity measurements of evaporated selenium films in vacuum, Proc. Indian Natn. Sci. Acad. 46, A, (1980) 362-368.
B	CC5	Sharma, P., Structural, electrical and optical properties of silver selenide films, Ind. J. Of pure and applied phys. 35 (1997) 424-427. **
B	CD5	Snell, A.J.; Lecomber, P.G.; Hajto, J.; Rose, M.J.; Owen, A.E.; Osborne, I.L., Analogue memory effects in metal/a-Si:H/metal memory devices, J. Non-Cryst. Solids 137-138 (1991) 1257-1262. **
M	CE5	Snell, A.J.; Hajto, J.;Rose, M.J.; Osborne, L.S.; Holmes, A.; Owen, A.E.; Gibson, R.A.G., Analogue memory effects in metal/a-Si:H/metal thin film structures, Mat. Res. Soc. Symp. Proc. V 297, 1993, 1017-1021. **
TO	CF5	Steventon, A.G., Microfilaments in amorphous chalcogenide memory devices, J. Phys. D: Appl. Phys. 8 (1975) L120-L122. **
P	CG5	Steventon, A.G., The switching mechanisms in amorphous chalcogenide memory devices, J. Non-Cryst. Solids 21 (1976) 319-329. **
刑	CH5	Stocker, H.J., Bulk and thin film switching and memory effects in semiconducting chalcogenide glasses, App. Phys. Lett. 15 (1969) 55-57. **
M	CI5	Tanaka, K., Ionic and mixed conductions in Ag photodoping process, Mod. Phys. Lett B 4 (1990) 1373-1377. **
H	CJ5	Tanaka, K.; Iizima, S.; Sugi, M.; Okada, Y.; Kikuchi, M., Thermal effects on switching phenomenon in chalcogenide amorphous semiconductors, Solid State Comm. 8 (1970) 387-389. **

Sheet

8

s	substitute for form 1449B	/PTO		Complete if Known		
,				Application Number	10/121,791	
ı	NFORMATI	ON DIS	CLOSURE	Filing Date	April 10, 2002	
,	STATEMEN	T BY AF	PPLICANT	First Named Inventor	Terry L. Gilton	
	• . <i>.</i>			Group Art Unit	1773	
	(use as man	y sheets as ne	cessary)	Examiner Name	Not Yet Assigned	
Shee	t 9	of	10	Attorney Docket Number	M4065.0607/P607	

~	
H) CK5	Thomburg, D.D., Memory switching in a Type I amorphous chalcogenide, J. Elect. Mat. 2 (1973) 3-15. **
H) CL5	Thomburg, D.D., Memory switching in amorphous arsenic triselenide, J. Non-Cryst. Solids 11 (1972) 113-120. **
H) CM5	Thomburg, D.D.; White, R.M., Electric field enhanced phase separation and memory switching in amorphous arsenic triselenide, Journal (??) (1972) 4609-4612. **
XI) CN5	Tichy, L.; Ticha, H., Remark on the glass-forming ability in GexSe1-x and AsxSe1-x systems, J. Non-Cryst. Solids 261 (2000) 277-281. **
VI) CO5	Titus, S.S.K.; Chatterjee, R.; Asokan, S., Electrical switching and short-range order in As-Te glasses, Phys. Rev. B 48 (1993) 14650-14652. **
H) CP5	Tranchant,S.;Peytavin,S.;Ribes,M.;Flank,A.M.;Dexpert,H.;Lagarde,J.P., Silver chalcogenide glasses Ag-Ge-Se: lonic conduction and exafs structural investigation, Transport-structure relations in fast ion and mixed conductors Proceedings of the 6th Riso International symposium. 9-13 September 1985. **
₩ CQ5	Tregouet, Y.; Bernede, J.C., Silver movements in Ag2Te thin films: switching and memory effects. Thin Solid Films 57 (1979) 49-54. **
HD CR5	Uemura, O.; Kameda, Y.; Kokal, S.; Satow, T., Thermally induced crystallization of amorphous Ge0.4Se0.6, J. Non-Cryst. Solids 117-118 (1990) 219-221. **
HD CS5	Uttecht, R.; Stevenson, H.; Sie, C.H.; Griener, J.D.; Raghavan, K.S., Electric field induced filament formation in As-Te-Ge glass, J. Non-Cryst. Solids 2 (1970) 358-370. **
HD CT5	Viger, C.; Lefrancois, G.; Fleury, G., Anomalous behaviour of amorphous selenium films, J. Non-Cryst. Solids 33 (1976) 267-272. **
HD CU5	Vodenicharov, C.; Parvanov,S.; Petkov,P., Electrode-limited currents in the thin-film M-GeSe-M system, Mat. Chem. And Phys. 21 (1989) 447-454. **
₩ CV5	Wang, SJ.; Mislum, G.R.; Camp, J.C.; Chen, KL.; Tigelaar, H.L., High-performance Metal/silicide antifuse, IEEE electron dev. Lett. 13 (1992)471-472. **
HD CD5	Weirauch, D.F., Threshold switching and thermal filaments in amorphous semiconductors, App. Phys. Lett. 16 (1970) 72-73. **
EX5	West, W.C.; Sieradzki, K.; Kardynal, B.; Kozicki, M.N., Equivalent circuit modeling of the Ag As0.24S0.36Ag0.40 Ag System prepared by photodissolution of Ag, J. Electrochem. Soc. 145 (1998) 2971-2974**
HD CY5	West, W.C., Electrically erasable non-volatile memory via electrochemical deposition of multifractal aggregates, Ph.D. Dissertation, ASU 1998**
H) CZ5	Zhang, M.; Mancini, S.; Bresser, W.; Boolchand, P., Variation of glass transition temperature, Tg, with average coordination number, <m>, in network glasses: evidence of a threshold behavior in the slope dTg/d<m> at the rigidity percolation threshold (<m>=2.4), J. Non-Cryst. Solids 151 (1992) 149-154. **</m></m></m>
CA6	Axon Technologies Corporation, TECHNOLOGY DESCRIPTION: Programmable Metalization Cell(PMC), pp. 1-6 (Pre-May 2000).**
СВ6	Helbert et al., Intralevel hybrid resist process with submicron capability, SPIE Vol. 333 SUBMICRON LITHOGRAPHY, pp. 24-29 (1982).**
HD CC6	Hilt, DISSERTATION: Materials characterization of Silver Chalcogenide Programmable Metalization Cells, Arizona State University, pp. Title page-114 (UMI Company, May 1999).**
17A CD6	Hirose et al., High Speed Memory Behavior and Reliability of an Amorphous As₂S₃
41	Film Doped Ag, Phys. STAT. Sol. (a) 61, pp. 87-90 (1980).**
(CE6	Holmquist et al., Reaction and Diffusion in Silver-Arsenic Chalcogenide Glass Systems, 62 J. AMER. CERAM. Soc., No. 3-4, pp. 183-188 (March-April 1979).**
CF6	Huggett et al., Development of silver sensitized germanium selenide photoresist by
. 1	

Substitute for form 1449B/PTO				Complete if Known				
0000000				Application Number	10/121,791 10/790816			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	April 10, 2002 3-3-04			
				First Named Inventor	Terry L. Gilton 1773			
				Group Art Unit				
	(use as man	y sheets as nece	essary)	Examiner Name	Not Yet Assigned			
Sheet	10	of	10	Attorney Docket Number	M4065.0607/P607			

			_
		reactive sputter etching in SF ₆ , 42 APPL. PHYS. LETT., No. 7, pp. 592-594 (April 1983).**	
(h)	CG6	Kawaguchi et al., Mechanism of photosurface deposition, 164-166 J. NON-CRYST. SOLIDS, pp. 1231-1234 (1993).**	_
W	СН6	Kolobov and Elliott, Photodoping of Amorphous Chalcogenides by Metals, Advances in Physics, Vol. 40, No 5, 625-684 (1991).**	
B	C16	Kozicki, et al., "Applications of Programmable Resistance Changes in Metal-doped Chalcogenides", Proceedings of the 1999 Symposium on Solid State Ionic Devices, Editors - E.D. Wachsman et al., The Electrochemical Society, Inc., 1 - 12 (1999).**	
M	CJ6	Kozicki, et al., Nanoscale effects in devices based on chalcogenide solid solutions, Superlattices and Microstructures, 27, 485-488 (2000).**	
M	CK6	Kozicki, et al., Nanoscale phase separation in Ag-Ge-Se glasses, Microelectronic Engineering, vol. 63/1-3,155-159 (2002).**	
W	CL6	M.N. Kozicki and M. Mitkova, Silver incorporation in thin films of selenium rich Ge-Se glasses, Proceedings of the XIX International Congress on Glass, Society for Glass Technology, 226-227 (2001).**	
R	СМ6	McHardy et al., The dissolution of metals in amorphous chalcogenides and the effects o electron and ultraviolet radiation, 20 J. Phys. C.: SOLID STATE Phys., pp. 4055-4075 (1987)f**	
1	CN6	Owen et al., Metal-Chalcogenide Photoresists for High Resolution Lithography and Sub-Micron Structures, NANOSTRUCTURE PHYSICS AND FABRICATION, pp. 447-451 (M. Reed ed. 1989).**	
B	CO6	Shimizu et al., The Photo-Erasable Memory Switching Effect of Ag Photo-Doped Chalcogenide Glasses, 46 B. CHEM SOC. JAPAN, No. 12, pp. 3662-3365 (1973).**	

Examiner Signature	7	when	20	ty	Date Consid	dered	18/2	5/0	5
			_	77					

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.